

# David Anders

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<b>OBJECTIVE</b>	A challenging position in the field of Embedded Firmware development and support , where extensive skills and experience in embedded hardware, software, and communications can provide creative technology solutions.
<b>SUMMARY OF EXPERIENCE</b>	Over 17 years of professional experience, including 11 years of <b>Embedded Development</b> specializing in the integration of hardware and software at the lowest levels utilizing Open Source tools, bootloaders, and operating systems such as Linux to rapidly produce quality products.
<b>SPECIALITIES</b>	My specialty is complex problem solving to provide rapid solutions to both hardware and software issues. This includes reverse engineering existing legacy projects as well as processing, assimilating and filtering large amounts of datasheets, schematics, software source code, and management specifications.
<b>EXPERIENCE</b>	
<b>October 2004- Present</b>	<b>Senior Embedded Developer</b> , American Microsystems Limited, Euless,TX Lead developer for integration of new hardware/software into commercial handheld devices, Including initial board bringup via JTAG, bootloader development, initial Linux kernel support, and advanced Linux kernel drivers for items such as barcode scanners, RFID, magnetic card readers, lcd frambuffer, custom power management,wireless/wired networking, audio codecs, battery fuel guage devices.
<b>July 1999- October 2004</b>	<b>R&amp;D Manager</b> , Advantage Business Computer Systems, Big Sandy,TX Developed Linux device drivers and API's for legacy Point-of-Sale devices Developed wireless handheld devices for the inventory and warehousing markets Planned, developed, and produced thin client devices including the TCSX-1 thin client
<b>December 1997 -July 1999</b>	<b>Technology Manager</b> , Accurate Corrosion Monitoring Company, Longview, TX Designed and implemented plan to network all information systems utilizing Open Source Applications Developed embedded hardware and applications for industrial data collection with Linux Designed desktop applications to automate complex decision making procedures
<b>July 1994 -December 1997</b>	<b>Lead Developer</b> , Electro Tech, Longview, TX Produced and serviced custom information systems for small business with emphasis on embedded hardware designed to collect social and demographic data. Provided technical support via phone for customers Trained service technicians for in-field servicing.
<b>January 1992 -June 1994</b>	<b>Signal Support Systems Specialist</b> , United States Army, Signal Corp, Rank E-4 Specialist MOS 31U Responsible for maintaining the communication and computer systems in approximately 300 M-1A1 Abhrams tanks as well as other armored vehicles Received the <b>Army Achievement Medal</b> for developing a computer recycling program Received the <b>Army Commendation Medal</b> for excellence in communication and computer maintenance
<b>Operating Systems</b>	Microsoft <b>Windows</b> 95/98/2000/ME/XP, Microsoft <b>Windows CE</b> 5/6 , <b>Linux</b> , BSD, multiple <b>Unix</b> versions
<b>Software Skills</b>	bootloaders (blob,UBoot, RedBoot, Apex, bootldr, CyaCE,Lilo, Grub) ,buildsystems (buildroot, openembedded) C/C++, shell scripting, embedded libraries ( uClibc, DietLibc ) , Linux kernel and kernel driver development, GUI environments (GTK, FLTK, PicoGUI, X and Xforms), Perl, Python, RCS/VCS(git, svn, cvs, monotone)
<b>Hardware Skills</b>	WAN - frame relay, DDS, Wireless (802.11 and microwave), ISDN, DSL, and satellite LAN - VPN, VLAN, VoIP(H.323 and cisco), Fiberoptics, Category 3/5/6 Cabling Processors – ARM7, ARM9, ARM11, Cortex-A8, Cortex-M3, Strongarm, Xscale, x86 (Intel, AMD), MIPS, PPC Programmable – Atmel ATiny and Atmega series, Microchip PIC, JTAG debugging, CPLD and FPGA cores
<b>Education</b>	Kilgore Junior College, Kilgore, TX Louisiana Tech University , Ruston, LA US ARMY Signal Corp MOS31V Advanced Individual Training
<b>References</b>	Included with additional information available on request

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## References

“David consulted with me on a number of topics related to embedded Linux. I've meet thousands of engineers over the years who dabble in open source and Linux. David impressed me based on not just his technical knowledge of his areas of expertise but his open source community savvy.”

Brad Dixon , *Field Engineering Specialist, Global Accounts , MontaVista Software*

“Dave is one of the finest embedded hardware and software engineers I have ever met. He has built and designed his own hardware, ported operating systems to work on that hardware, and shipped products on very tight deadlines. He and I exchange questions and answers often, helping one another out at our jobs. We have been doing this for years, and I look forward to collaborating with him further.”

Steve Hill , *Owner , Reality Diluted, L.L.C.*

“Dave is a very pragmatic and thoughtful person. I thoroughly enjoy working with him. His expertise as a designer and programmer guarantees the success our projects and we are the better for it. He is a very "out of the box" type of person. Recommendation isn't the right word here, it is just plain "YES".”

Andrew Perkins , *Lead Engineer , American Microsystems, Ltd.*

“David is able to pickup a project with little information and get things on track. He has a good eye for detail and a great feel for what embedded Linux developers are looking for. He works well with the community encouraging others to contribute to the project. He is able to overcome obstacles to get the job done. I'd be happy to have him on my team.”

Tim Riker , *Linux Technologist E&PS , Texas Instruments*

“David and I work together, and have for several years on the Embedded Linux Community Portal (<http://www.elinux.org>) sponsored by the Consumer Embedded Linux Forum (<http://www.celinuxforum.org>). Dave's knowledge of Embedded Development is of highest level of any individual I've ever worked with. Dave is always first to help out when issues arise and maintains a level of professionalism at all times. It's been my pleasure to work with Dave and I look forward to our ongoing collaboration. I highly recommend Dave's work both technical and non-technical without hesitation.” August 29, 2008

Bill Traynor , *Consultant - Senior Systems Analyst , Equitable Life*

“David is an experienced and dedicated open source developer. I have known him for nearly 7 years as part of the embedded Linux community. David has always been an excellent software developer; and he has an amazing aptitude for developing and debugging hardware; a skill not commonly shared by other software developers in the open source arena. He has consistently demonstrated a concern for supporting open source software, but at the same time understands how to balance the community with the business of dealing with customers.”

Jordan\_Crouse , *MTS System Software Developer , Advanced Micro Devices*

## Acknowledgements

"The software that's included is solid and functional. Anyone trying to build their own embedded Linux device would do well to study how Advantage put the TCSX-1's software together."

John Lombardo, *author of Embedded Linux, Linuxdevices.com*

"Dave Anders is a wunderkind installer who has outfitted several pocket gadgets with Linux, including the Pixter, JuiceBox, TVNow and Zipit devices."

John Brandon, *Linux Format Magazine Aug08*